

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1-16. (canceled)

17. (new) A process for preparing a denture, comprising:

- a) preparing a blank,
- b) rough processing the blank by milling,
- c) fine processing the blank by milling,
- c) dense sintering the milled blank in a temperature range from 1200 to 1650°C,

the blank comprising a pre-sintered material and having a raw breaking resistance from 15 to 28 MPa.

18. (new) The process according to claim 17, in which the blank has a raw breaking resistance of 23 to 28 MPa.

19. (new) The process according to one of claim 17 or 18, in which, during the milling of the blank, a tool of a processing machine operates at a speed of 5,000 to 40,000 rpm and a feed rate of 20 to 5,000 mm/min during the rough processing and a speed of 5,000 to 50,000 rpm and a feed rate of 20 to 5,000 mm/min during fine

processing and in both rough processing and fine processing with a milling diameter of 0.8 to 4 mm.

20. (new) The process according to claim 17, in which the blank is processed from a side that contacts a tooth stump and from a side that does not contact a tooth stump.

21. (new) The process according to claim 17, the pre-sintered blank comprising a zirconium oxide or an aluminium oxide ceramic.

22. (new) A denture part prepared according to the process of claim 17.

23. (new) A pre-sintered blank made from zirconium oxide ceramic, comprising:

- (A) 91 to 98.45 wt.-% zirconium oxide,
- (B) 0 to 3.5 wt.-% hafnium oxide,
- (C) 1.5 to 6.0 wt.-% yttrium oxide,
- (D) 0.05 to 0.50 wt.-% of at least one of the oxides of the elements aluminium, gallium, germanium, indium,
- (E) 0 to 1.9 wt.-% coloring additives, calculated as oxides, the wt.-% adding up to 100 and the blank having a raw breaking resistance of 15 to 30 MPa.

24. (new) The pre-sintered blank according to claim 23 comprising:

- (A) 91 to 98.35 wt.-% zirconium oxide,
 - (B) 0 to 2.5 wt.-% hafnium oxide,
 - (C) 1.5 to 6.0 wt.-% yttrium oxide,
 - (D) 0.15 to 0.50 wt.-% of at least one of the oxides of the elements aluminium, gallium, germanium, indium,
 - (E) 0 to 1.9 wt.-% coloring additives,
- the wt.-% adding up to 100.

25. (new) The pre-sintered blank according to claim 23 comprising:

- (A) 91 to 98.45 wt.-% zirconium oxide,
 - (B) 0 to 3.5 wt.-% hafnium oxide,
 - (C) 1.5 to 6.0 wt.-% yttrium oxide,
 - (D) 0.05 to 0.50 wt.-% aluminium oxide,
 - (E) 0 to 1.9 wt.-% coloring additives,
- the wt.-% having to add up to 100.

26. (new) The pre-sintered blank according to claim 23, having a raw breaking resistance of 25 to 28 MPa.

27. (new) The pre-sintered blank according to claim 24, having a raw breaking resistance of 25 to 28 MPa.

28. (new) The pre-sintered blank according to claim 25, having a raw breaking resistance of 25 to 28 MPa.

29. (new) The pre-sintered blank according to claim 23, that has been sintered at a temperature of 850°C to 1000°C.

30. (new) The pre-sintered blank according to claim 26, that has been sintered at a temperature of 850°C to 1000°C.

31. (new) The pre-sintered blank according to claim 23 that has a deviation from the linearity of the shrinkage per spatial direction below 0.05%.

32. (new) The pre-sintered blank according to claim 29 that has a deviation from the linearity of the shrinkage per spatial direction below 0.05%.

33. (new) The pre-sintered blank according to claim 30 that has a deviation from the linearity of the shrinkage per spatial direction below 0.05%.

34. (new) The process according to claim 17, in which, a pre-sintered blank made from zirconium oxide ceramic, comprising:
(A) 91 to 98.45 wt.-% zirconium oxide,

(B) 0 to 3.5 wt.-% hafnium oxide,

(C) 1.5 to 6.0 wt.-% yttrium oxide,

(D) 0.05 to 0.50 wt.-% of at least one of the oxides of the elements aluminium, gallium, germanium, indium,

(E) 0 to 1.9 wt.-% coloring additives, calculated as oxides, the wt.-% adding up to 100 and the blank having a raw breaking resistance of 15 to 30 Mpa, is milled into a shrinkage-matched, enlarged model of an end denture and densely sintered to the end dimensions of the enlarged model.

35. (new) The process of claim 34 in which the milling to a shrinkage-matched, enlarged model of the end dentures is controlled by a CAD/CAM software.

36. (new) The process of claim 34, in which the pre-sintered blank is aesthetically re-processed after the processing and densely sintered to the end dimensions of the enlarged model.